

## **CBM POWERED BOLT ACTUATOR R&R GENERIC**

### OBJECTIVE:

This procedure removes and replaces a failed CBM Powered Bolt Actuator.

### LOCATION:

Installed: Active CBM docking ring

Stowed: √ Maint DB

### DURATION:

35 min

### PARTS:

CBM Powered Bolt Actuator (P/N 683-13621-004)

### MATERIALS:

None

### TOOLS REQD:

Equip Bag

Tether

Kit E:

Ratchet 3/8" Drive

Kit C:

3/8" Socket, 3/8" Drive

Powered Bolt Tool Kit

Spanner Wrench

### PROCEDURES REFERENCED:

POWERED BOLT ASSEMBLY CHECKOUT

## SAFE

### **WARNING**

Failure to remove power can result in electrical shock hazard.

1. ✓ CBM Controller Pwr OFF

## ACCESS

2. If required, remove vestibule closeout for access by unfastening 1/4 turn fasteners (Tmpy stow).
3. If required, remove ACBM alignment guides for access by loosening fasteners (five per alignment guide) (Ratchet 3/8" Drive, 3/8" Socket) (Tmpy stow).

## REMOVE

4. Demate power connector P2 from bolt actuator power receptacle J1.
5. If required for access, remove harness from RTL actuator power receptacle.
6. Demate powered bolt load cell sensor cable from connector bracket (connector P3).

### NOTE

Spanner Wrench is labeled to identify correct threaded collar removal (OFF) and installation (ON) orientation. See Figure 1.

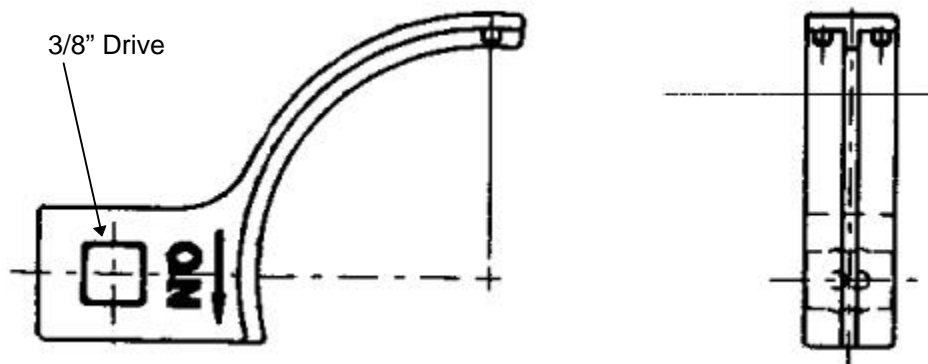


Figure 1. Spanner Wrench for Actuator Collar

7. Break torque on threaded collar by inserting spanner wrench pin into one of the holes on threaded collar (Spanner Wrench, Ratchet 3/8" Drive).

8. Turn threaded collar approximately five turns (until collar is loose).
9. Remove powered bolt actuator from powered bolt (Tm pry stow).

#### REPLACE

10. Mate output gear of replacement powered bolt actuator to input gear of powered bolt.
11. Rotate actuator while pressing it against powered bolt until actuator pins seat in corresponding holes in powered bolt.
12. Turn threaded collar on actuator 1/2 turn past snug (Spanner Wrench, Ratchet 3/8" Drive).
13. Mate power connector P2 to bolt actuator power receptacle J1.
14. If removed earlier, replace harness to RTL actuator power receptacle.
15. Mate powered bolt load cell sensor cable to connector bracket (connector P3).

#### CHECK-OUT

16. Perform *Powered Bolt Assembly Checkout Procedure* (TBD).

#### CLOSE-OUT

##### NOTE

Four pins on ACBM alignment guide should mate with corresponding sockets on ACBM docking ring.

17. If ACBM alignment guides were removed, replace alignment guides by rotating fasteners (five) 1/4 turn past snug (Ratchet 3/8" Drive, 3/8" Socket).
18. If vestibule close out was removed for maintenance, install vestibule closeout, by fastening 1/4 turn fasteners (tbd number).

#### POST MAINTENANCE

19. Stow failed powered bolt actuator, tools, maintenance supplies.
20. Update Maint Dbase.